

## EAST Search History

| Ref # | Hits | Search Query   | DBs                                       | Default Operator | Plurals | Time Stamp       |
|-------|------|--|---|------------------|---------|------------------|
| S1    | 568  | (198/396).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | ON      | 2006/06/20 08:31 |
| S2    | 93   | (198/550.01).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | ON      | 2006/06/20 08:41 |
| S3    | 85   | (198/550.2).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | ON      | 2006/06/20 08:31 |
| S4    | 21   | ("1679398"   "1993249"  <br>"2213508"   "2329948"   "3820688"<br>  "4227835"   "4789569"  <br>"5104230"   "5305912"   "5441176"<br>  "5702183").PN. OR ("6416261").<br>URPN. | US-PGPUB;<br>USPAT;<br>USOCR              | OR               | ON      | 2006/06/20 08:33 |
| S5    | 222  | (198/446).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | ON      | 2006/06/20 08:41 |
| S6    | 835  | (198/443).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | ON      | 2006/06/20 08:41 |
| S7    | 30   | (198/466.1).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | ON      | 2006/06/20 08:54 |
| S8    | 1    | ("6286566").PN.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | OFF     | 2006/06/20 09:03 |
| S9    | 44   | (S1 or S3 or S2 or S5 or S6 or S7)<br>and (hopper near6 (oscillat\$3 or<br>sway\$3 or fluctuat\$3 or pendul\$6<br>or rock\$3 or swing\$3 or wav\$3 or<br>wobbl\$3 or yo-yo)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | ON      | 2006/06/20 10:59 |
| S10   | 23   | ("0728522"   "1496080"  <br>"2177188"   "2469233"  <br>"3016166").PN. OR ("4201313").<br>URPN.   | US-PGPUB;<br>USPAT;<br>USOCR              | OR               | ON      | 2006/06/20 09:36 |
| S11   | 839  | (221/236).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR              | OR               | ON      | 2006/06/20 09:45 |

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|     |     |   |   |    |    |                  |
|-----|-----|---|---|----|----|------------------|
| S12 | 13  | (221/236).CCLS. and (hopper near6 (oscillat\$3 or sway\$3 or fluctuat\$3 or pendul\$6 or rock\$3 or swing\$3 or wav\$3 or wobbl\$3 or yo-yo)) | US-PGPUB;<br>USPAT;<br>USOCR              | OR | ON | 2006/06/20 09:45 |
| S13 | 568 | (198/396).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/06/20 11:00 |
| S14 | 93  | (198/550.01).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/06/20 11:00 |
| S15 | 85  | (198/550.2).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/06/20 11:00 |
| S16 | 222 | (198/446).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/06/20 11:00 |
| S17 | 835 | (198/443).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/06/20 11:00 |
| S18 | 30  | (198/466.1).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/06/20 11:00 |
| S19 | 839 | (221/236).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR              | OR | ON | 2006/06/20 11:00 |
| S20 | 147 | (S13 or S15 or S14 or S16 or S17 or S18 or S19) and (hopper near6 (sway\$3 or pendul\$6 or rock\$3 or swing\$3 or inclin\$3))                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/12/04 12:01 |
| S21 | 27  | (S13 or S15 or S14 or S16 or S17 or S18 or S19) and (hopper near6 (sway\$3 or pendul\$6 or rock\$3 or swing\$3))                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/06/20 11:07 |
| S22 | 30  | (S13 or S15 or S14 or S16 or S17 or S18 or S19) and ((hopper or bin) near6 (sway\$3 or pendul\$6 or rock\$3 or swing\$3))                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/06/20 11:08 |
| S23 | 3   | (S13 or S15 or S14 or S16 or S17 or S18 or S19) and ((bin) near6 (sway\$3 or pendul\$6 or rock\$3 or swing\$3))                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/06/20 11:12 |

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|     |      |   |   |    |    |                  |
|-----|------|---|---|----|----|------------------|
| S24 | 52   | ("198"/\$ or "221"/\$) and ((bin) near6 (sway\$3 or pendul\$6 or rock\$3 or swing\$3))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/06/20 11:21 |
| S25 | 207  | ("198"/\$ or "221"/\$) and ((hopper or bin) near6 (sway\$3 or pendul\$6 or rock\$3 or swing\$3))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/06/20 11:28 |
| S26 | 242  | ("198"/\$) and ((hopper or bin) near6 (oscillat\$3 or sway\$3 or fluctuat\$3 or pendul\$6 or rock\$3 or swing\$3 or wav\$3 or wobbl\$3 or yo-yo))           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/06/20 18:37 |
| S27 | 147  | ("198"/\$) and ((hopper or bin) near6 (oscillat\$3 or sway\$3 or fluctuat\$3 or pendul\$6 or rock\$3 or swing\$3 or wav\$3 or wobbl\$3 or yo-yo)) and angle | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/06/20 11:51 |
| S28 | 3    | ("198"/\$) and ((hopper or bin) near6 (sway\$3)) and angle  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/06/20 11:51 |
| S29 | 3    | ("198"/\$) and ((hopper or bin) near6 (sway\$3)) and angle  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/06/20 11:53 |
| S30 | 3    | ("198"/\$) and ((hopper or bin) near6 (sway\$3))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/06/20 11:53 |
| S31 | 45   | ((hopper or bin) near6 (sway\$3))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/06/20 11:53 |
| S32 | 1026 | ((hopper or bin) near6 (oscillat\$3 or sway\$3 or fluctuat\$3 or pendul\$6 or rock\$3 or swing\$3 or wav\$3 or wobbl\$3 or yo-yo)) same angle               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/06/20 12:01 |
| S33 | 6202 | ((hopper or bin) near6 (oscillat\$3 or sway\$3 or fluctuat\$3 or pendul\$6 or rock\$3 or swing\$3 or wav\$3 or wobbl\$3 or yo-yo))                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/06/20 12:04 |
| S34 | 82   | (221/177).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/06/20 12:05 |

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|     |       |   |   |    |    |                  |
|-----|-------|---|---|----|----|------------------|
| S35 | 38    | (S13 or S15 or S14 or S16 or S17 or S18 or S19) and (hopper near6 (sway\$3 or pendul\$6 or rock\$3 or swing\$3 or inclin\$3)) and cycle   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/06/20 12:10 |
| S36 | 43    | (S13 or S15 or S14 or S16 or S17 or S18 or S19 or S34) and (hopper near6 (sway\$3 or pendul\$6 or rock\$3 or swing\$3 or inclin\$3)) and cycle  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/06/20 12:10 |
| S37 | 576   | (S13 or S15 or S14 or S16 or S17 or S18 or S19 or S34) and (oscillat\$3 or sway\$3 or fluctuat\$3 or pendul\$6 or rock\$3 or swing\$3 or wav\$3 or wobbl\$3 or yo-yo)                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/06/20 12:12 |
| S38 | 187   | (S13 or S15 or S14 or S16 or S17 or S18 or S19 or S34) and (oscillat\$3 or sway\$3 or fluctuat\$3 or pendul\$6 or rock\$3 or swing\$3 or wav\$3 or wobbl\$3 or yo-yo) and cycle       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/06/20 12:11 |
| S39 | 473   | (S13 or S15 or S14 or S16 or S17 or S18 or S19 or S34) and (hopper near10 oscillat\$3 or sway\$3 or fluctuat\$3 or pendul\$6 or rock\$3 or swing\$3 or wav\$3 or wobbl\$3 or yo-yo)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/06/20 12:13 |
| S40 | 82    | (S13 or S15 or S14 or S16 or S17 or S18 or S19 or S34) and (hopper near10 (oscillat\$3 or sway\$3 or fluctuat\$3 or pendul\$6 or rock\$3 or swing\$3 or wav\$3 or wobbl\$3 or yo-yo)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/06/20 12:13 |
| S41 | 839   | (221/236).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR              | OR | ON | 2006/06/20 15:18 |
| S42 | 2     | US-2977022-\$.DID.  | US-PGPUB;<br>USPAT;<br>USOCR              | OR | ON | 2006/06/20 15:18 |
| S43 | 80692 | ("221"/\$).CCLS. (pipette or pipet or pippette or pippet)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/12/06 16:49 |
| S44 | 35    | ("221"/\$).CCLS. and (pipette or pipet or pippette or pippet)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/06/20 17:01 |
| S45 | 31    | ("221"/\$).CCLS. and (pipette or pipet or pippette or pippet) and remov\$3  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/06/20 17:03 |

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|     |        |  |   |    |    |                  |
|-----|--------|--|---|----|----|------------------|
| S46 | 2      | ("221"/\$).CCLS. and (pipette or pipet or pippette or pipet) and remov\$3 and magnet                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/06/20 17:32 |
| S47 | 2      | ("221"/\$).CCLS. and (pipette or pipet or pippette or pipet) and magnet                                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/06/20 17:33 |
| S48 | 2212   | (pipette or pipet or pippette or pipet) and magnet   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/06/20 17:33 |
| S49 | 600    | (pipette or pipet or pippette or pipet) and ((remov\$5 or discharg\$3 or dispens\$3) near10 magnet)          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/06/20 17:34 |
| S50 | 1      | hopper and (sway near10 cycle)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/06/20 17:43 |
| S51 | 221    | hopper and ((sway\$3 or inclin\$5 or fluctuat\$4) near10 cycle)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/06/20 17:44 |
| S52 | 50     | hopper same ((sway\$3 or inclin\$5 or fluctuat\$4) near10 cycle)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/06/20 18:21 |
| S53 | 964    | hopper same ((sway\$3 or inclin\$5 or fluctuat\$4) near10 second)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/06/20 18:21 |
| S54 | 133028 | ("221"/\$ or "198"/\$).CCLS. hopper same ((sway\$3 or inclin\$5 or fluctuat\$4) near10 second)               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/06/20 18:21 |
| S55 | 180    | ("221"/\$ or "198"/\$).CCLS. and hopper same ((sway\$3 or inclin\$5 or fluctuat\$4) near10 second)           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/06/20 18:24 |
| S56 | 1      | ("221"/\$ or "198"/\$).CCLS. and hopper same ((sway\$3 or inclin\$5 or fluctuat\$4) near10 (per adj second)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/06/20 18:22 |
| S57 | 2      | ("221"/\$ or "198"/\$).CCLS. and hopper same ((sway\$3 or ifluctuat\$4) near10 second)                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/06/20 18:24 |

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|     |      |   |   |    |    |                  |
|-----|------|---|---|----|----|------------------|
| S58 | 101  | (sway\$3 near10 cycle)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/06/20 18:24 |
| S59 | 11   | ("198"/\$ or "221"/\$) and ((hopper or bin) near6 (oscillat\$3 or sway\$3 or fluctuat\$3 or pendul\$6 or rock\$3 or swing\$3 or wav\$3 or wobbl\$3 or yo-yo)) and ("0.5" adj second or "10" adj second) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/06/20 18:38 |
| S60 | 17   | ((("198"/\$).CCLS. or ("221"/\$).CCLS. or ("414"/\$).CCLS.) and (sway\$3 with hopper)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/12/03 16:06 |
| S61 | 2328 | ((("198"/\$).CCLS. or ("221"/\$).CCLS. or ("414"/\$).CCLS.) and (hopper near6 (sway\$3 or pendul\$6 or rock\$3 or swing\$3 or inclin\$3))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/12/03 16:34 |
| S62 | 3894 | ((("198"/\$).CCLS. or ("221"/\$).CCLS. or ("414"/\$).CCLS.) and (hopper with (sway\$3 or pendul\$6 or rock\$3 or swing\$3 or inclin\$3))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/12/03 16:34 |
| S63 | 1440 | ((("198"/\$).CCLS. or ("221"/\$).CCLS. or ("414"/\$).CCLS.) and (hopper with (sway\$3 or pendul\$6 or rock\$3 or swing\$3))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/12/03 16:34 |
| S64 | 570  | (198/396).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/12/04 12:01 |
| S65 | 93   | (198/550.01).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/12/04 12:01 |
| S66 | 85   | (198/550.2).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/12/04 12:01 |
| S67 | 222  | (198/446).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/12/04 12:01 |
| S68 | 838  | (198/443).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/12/04 12:01 |

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|     |     |   |   |    |    |                  |
|-----|-----|---|---|----|----|------------------|
| S69 | 32  | (198/466.1).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/12/04 12:01 |
| S70 | 842 | (221/236).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR              | OR | ON | 2006/12/04 12:01 |
| S71 | 100 | (S64 or S66 or S65 or S67 or S68 or S69 or S70) and (hopper near6 (sway\$3 or pendul\$6 or rock\$3 or swing\$3 or vibrat\$3)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/12/04 12:01 |
| S72 | 100 | (S64 or S66 or S65 or S67 or S68 or S69 or S70) and (hopper near6 (sway\$3 or pendul\$6 or rock\$3 or swing\$3 or vibrat\$4)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/12/04 12:01 |
| S73 | 147 | (S64 or S66 or S65 or S67 or S68 or S69 or S70) and (hopper with (sway\$3 or pendul\$6 or rock\$3 or swing\$3 or vibrat\$4))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/12/04 12:02 |
| S74 | 102 | (S64 or S66 or S65 or S67 or S68 or S69 or S70) and (hopper with (sway\$3 or pendul\$6 or vibrat\$4))                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/12/04 12:02 |
| S75 | 100 | (S64 or S66 or S65 or S67 or S68 or S69 or S70) and (hopper with (vibrat\$4))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/12/06 16:48 |
| S76 | 75  | ((("221"/\$).CCLS. or ("198"/\$).CCLS. ) and (pipette or pipet or pippette or pippet)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/12/06 16:52 |
| S77 | 4   | ("5392914"   "5470538").PN. OR ("6079593").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR              | OR | ON | 2006/12/07 15:46 |